

State Water Resources Control Board

October 16, 2018 - Item #2

Update on Salton Sea Management Program October 2018



Overview

- Environmental Conditions
- Order WR 2017-34
- SSMP Implementation and Coordination
- Schedule

Environmental Conditions

- Avian Monitoring
- Fishery Status
- Air Quality Monitoring
- Hydrology Inflow Modeling
- Salt Balance
- Water Quality Monitoring

Avian Monitoring

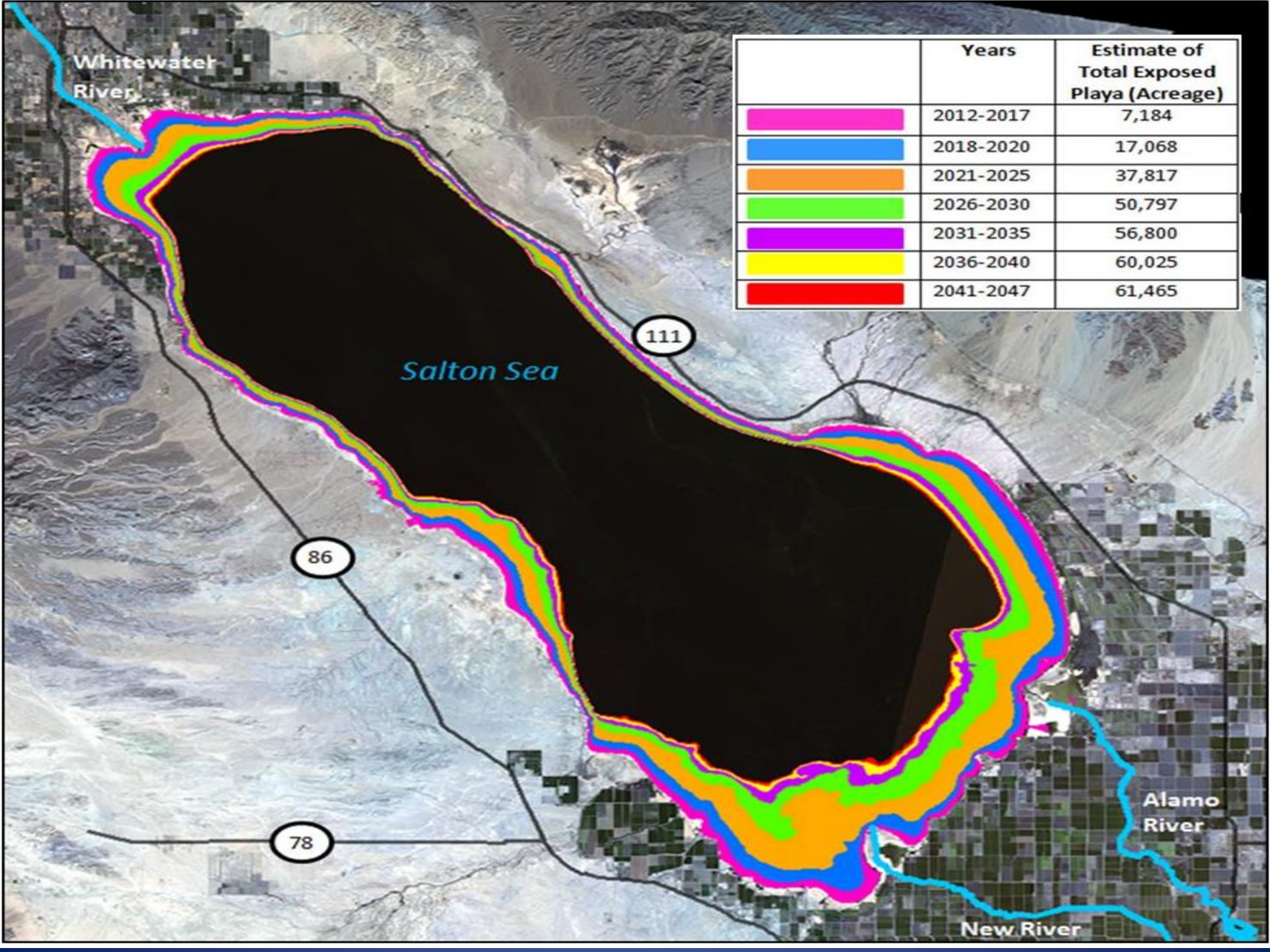
- Establishing baseline through surveys
- Coordination with Audubon, CDFW
- Monitoring will be ongoing through the life of the SSMP
- General decrease, but fish-eating primarily

Fishery Status

CPUE-Catch Per Unit Effort

- Downward Trend
- Fish in all life stages still present
- Concentrated around rivers' mouths





Steady Decrease of Outflow

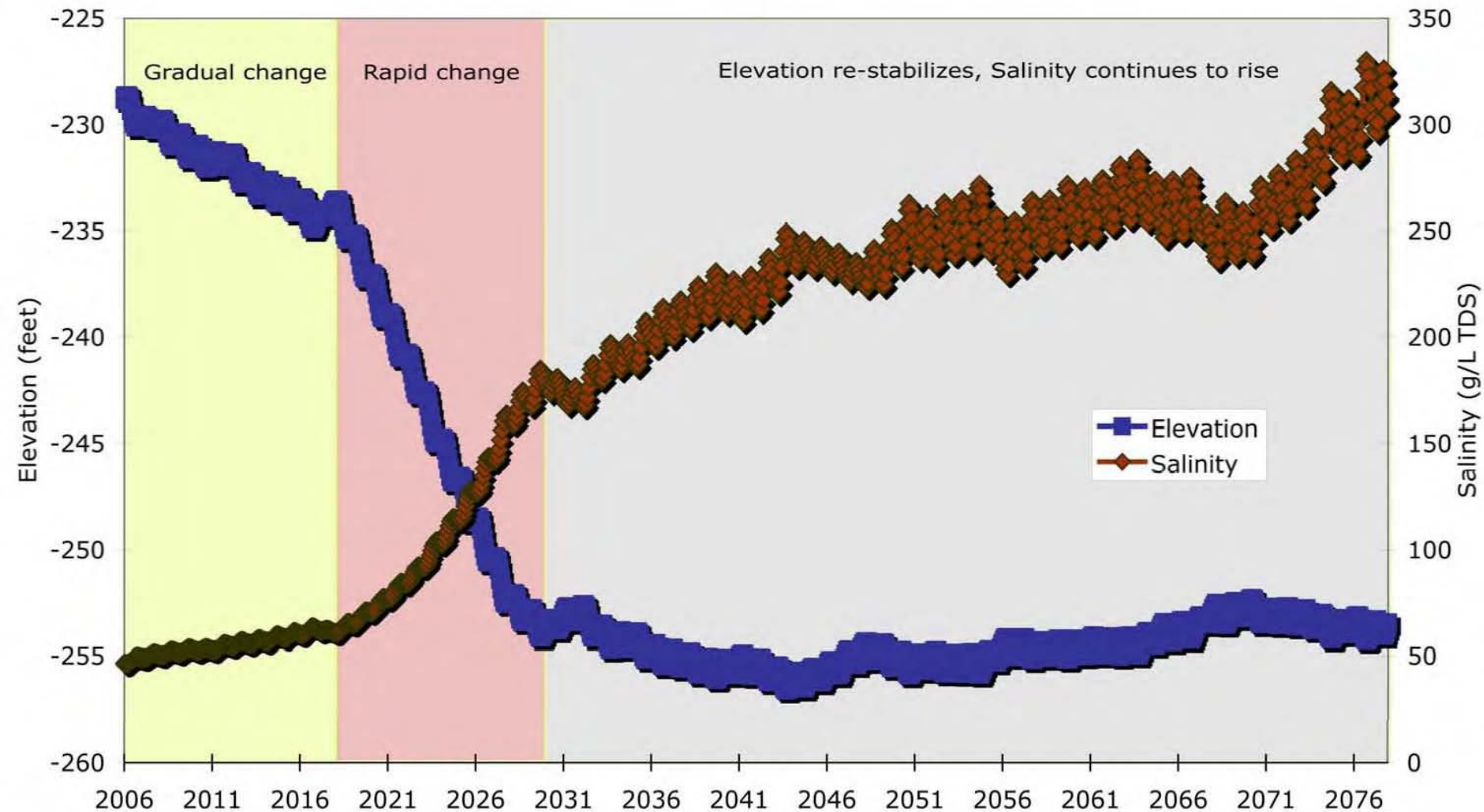
Calendar Year	Projected Flows (AF)	Exposed Playa (Acres)
2018	948,614	3,500
2019	915,228	7,700
2020	878,069	12,700
2021	862,093	18,300
2022	860,110	23,800
2023	855,364	29,100
2024	854,441	34,000
2025	852,735	38,300
2026	850,544	42,200
2027	855,247	45,500
2028	857,755	48,300

Salton Sea Projected Total Inflows (2017-2028) (AF). Imperial Irrigation District communication, 2015.

Salt Balance

	2014		2004-2014 Average	
	Load (metric ton/year)	Percent Total	Load (metric ton/year)	Percent Total
Alamo River	1,263,000	45%	1,518,000	47%
New River	1,159,000	41%	1,348,000	42%
Whitewater River	52,000	2%	58,000	2%
Direct Drains	321,000	11%	312,000	10%
Total	2,795,000		3,236,000	

Salton Sea Elevation and Salinity



Effect of No- Action on Salinity and Lake Elevation.

Air Quality



Air Quality



- **Obligations:**
 - QSA JPA
 - Contractual obligation under the QSA
- **Dust mitigation projects in coordination with partners**
 - Waterless and water dependent measures
 - Planning and Implementation
- **East and West shores of the Salton Sea in 2018**

Water Quality

- New Committee formed – Chair by SSA
- CDFW to resume monitoring
- Water sampling done for Alcott and to be done for NRW

Stipulated Water Board Order

	Annual	Cumulative
2018 acreage	500	500
2019 acreage	1300	1800
2020 acreage	1700	3500

Projected Recovery Plan		
2018 acreage	500 acres	Dust suppression projects
2019 acreage	1,000 acres	Dust suppression
2020/22 acreage	3 to 5,000 acres	North and SCH habitat

Dust Mitigation

- Contract in place with TetraTech, Inc.
- Target 500 to 1,000 acres in several locations
- Coordination with IID, ARB
- Primarily Tilling and Vegetation Enhancement

Funding Outlook

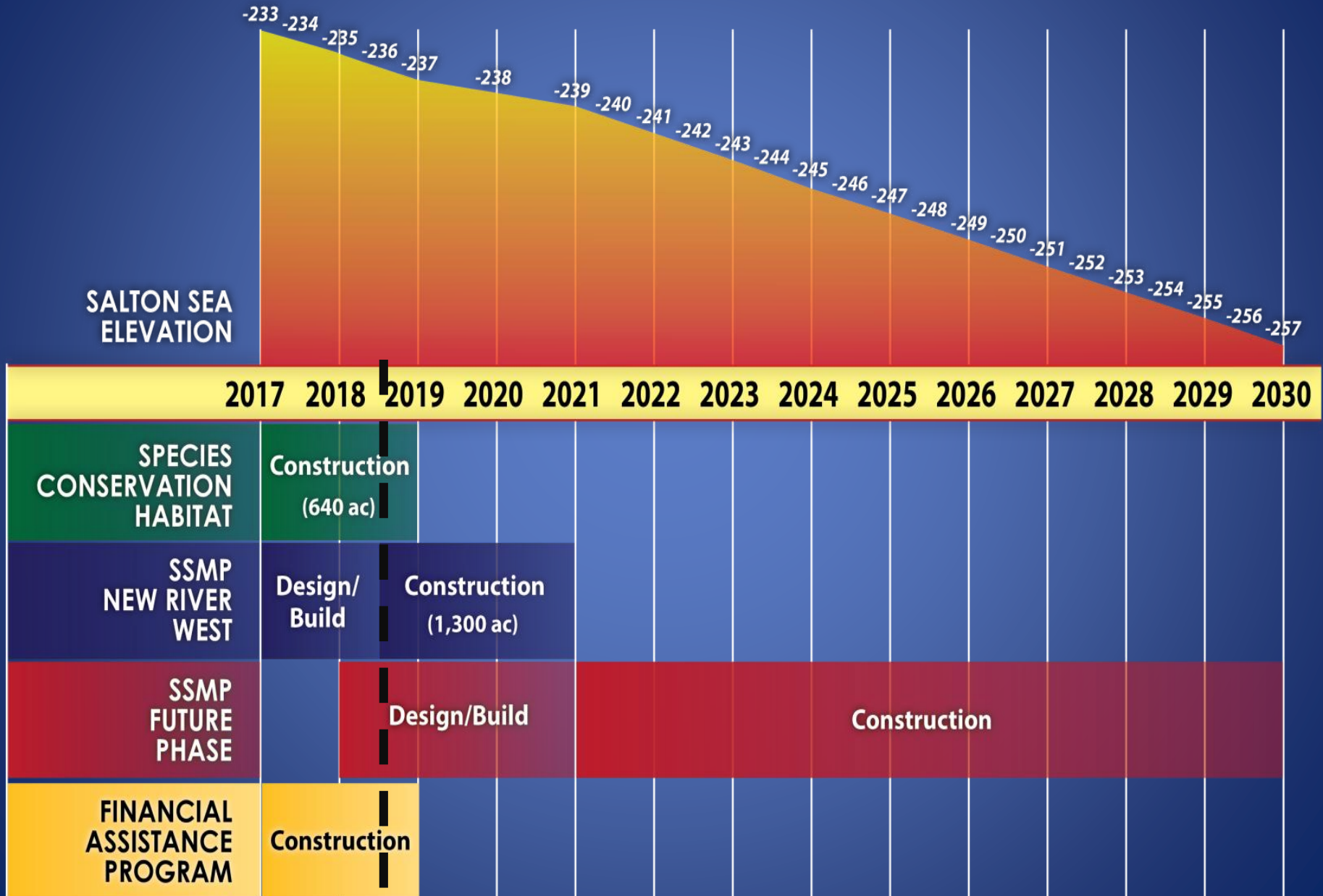
Proposition	Amount	Habitat	Dust suppression
Prop 84+50	\$21M+\$14M	640 acres ¹	0
Prop 1	\$60M+\$20M	1,500 acres	500 acres
Prop 68	\$150M	5,000 acres	5,000 acres
<i>Prop 3²</i>	<i>\$200M</i>	<i>9-10,000 acres</i>	<i>9 – 10,000 acres</i>
Total	\$465M	14,500 to 15,500	14,500 to 15,500

¹Not part of the WRO

² Not yet approved by voters

\$5M spent from Prop 1 for State Ops (contractors and staff time)

Schedule

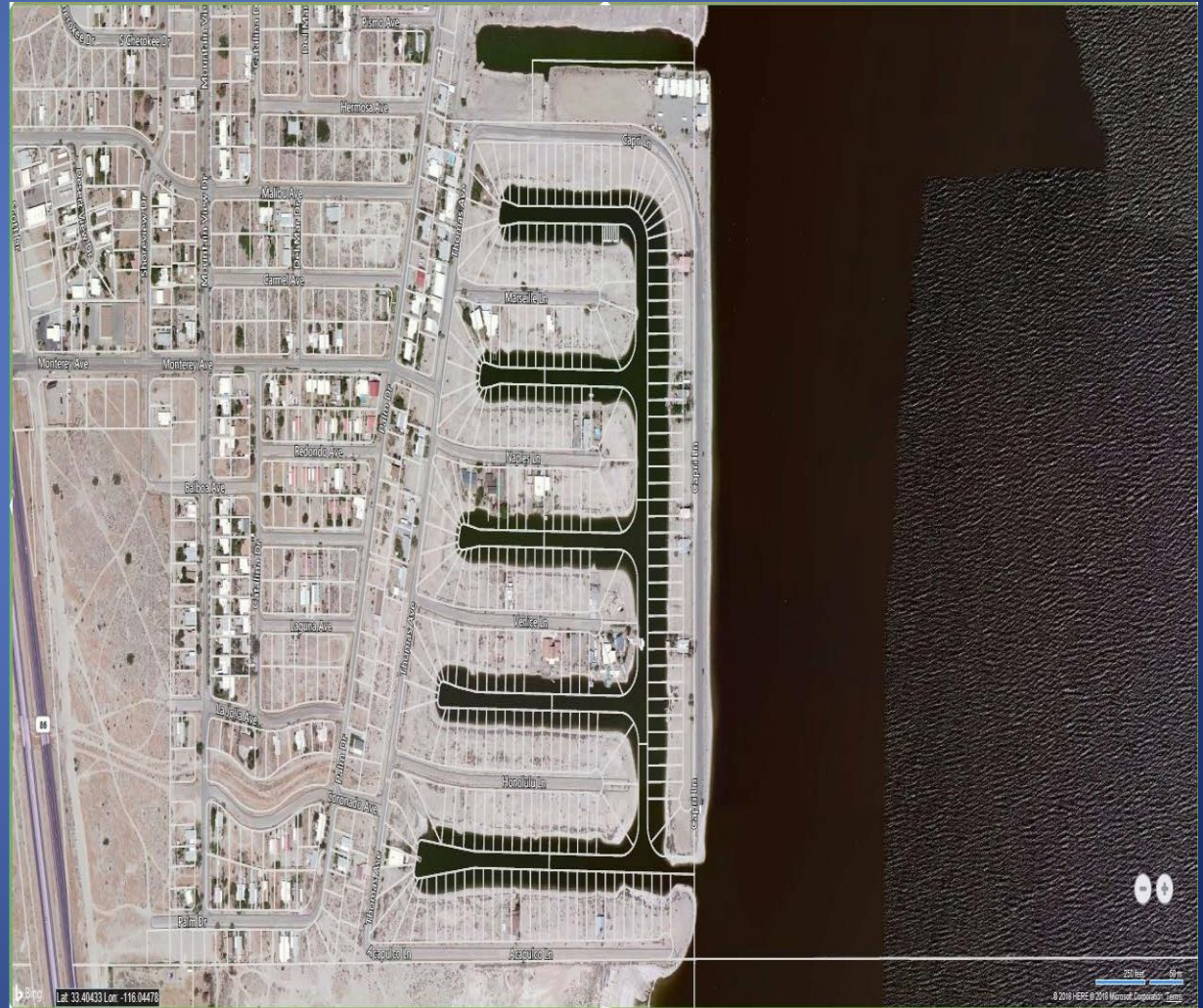


The map illustrates the Colorado River Delta region, highlighting five proposed water projects. The projects are numbered 1 through 5, with corresponding labels: 1. New River East, 2. Whitewater or Northern End, 3. Alamo North, 4. Alamo South, and 5. Red Hill Bay. The map also shows the Colorado River, the Gulf of California, and the Torres Martinez Wetland Project. A legend indicates the years 2003, 2018, 2023, and 2028 for the project areas.



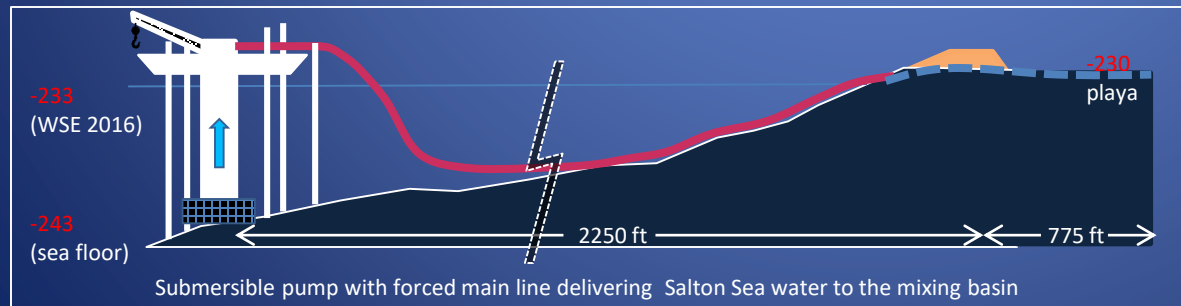
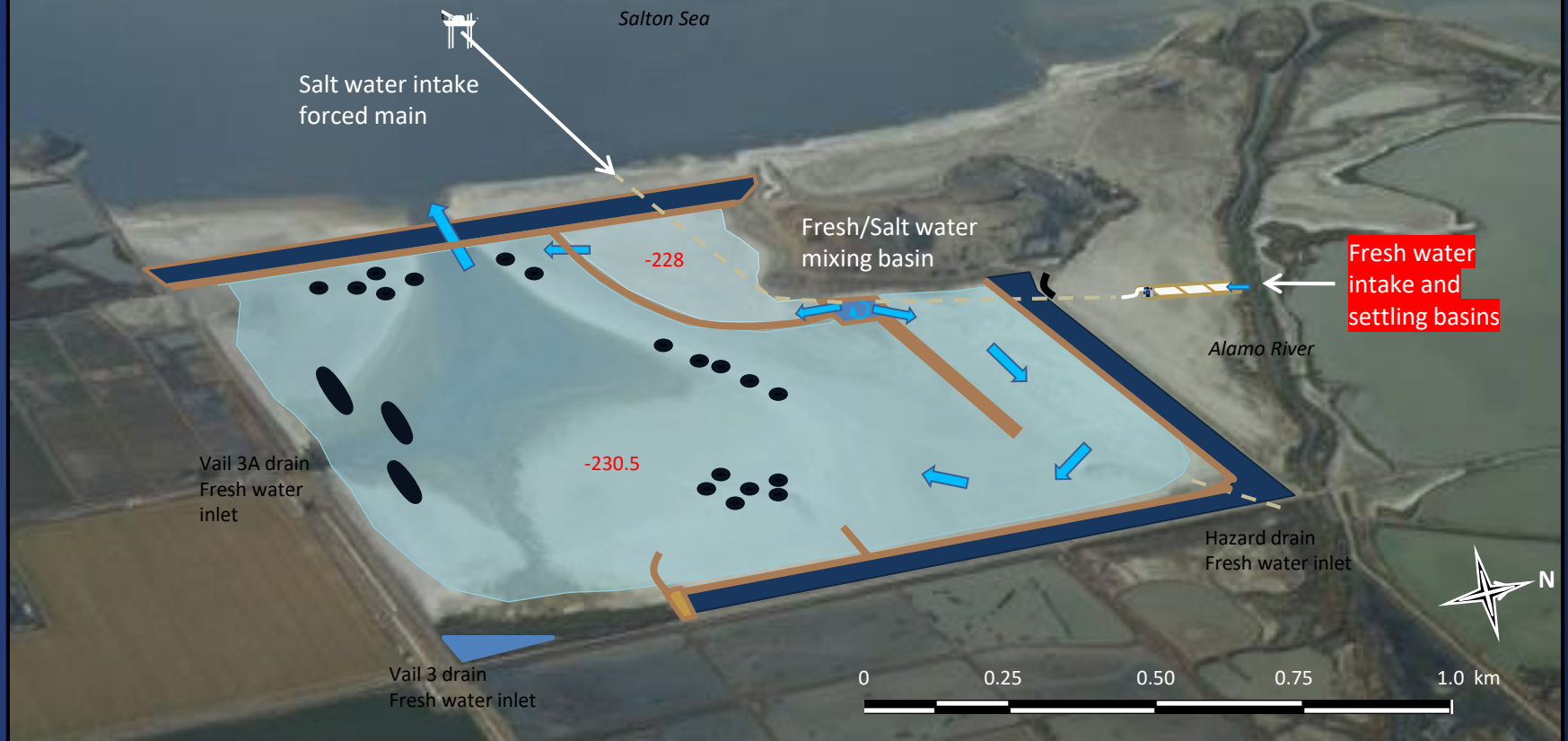
Air Quality and Vector Control

Harbor Project



Red Hill Bay Habitat Improvement Project

Conceptual Design

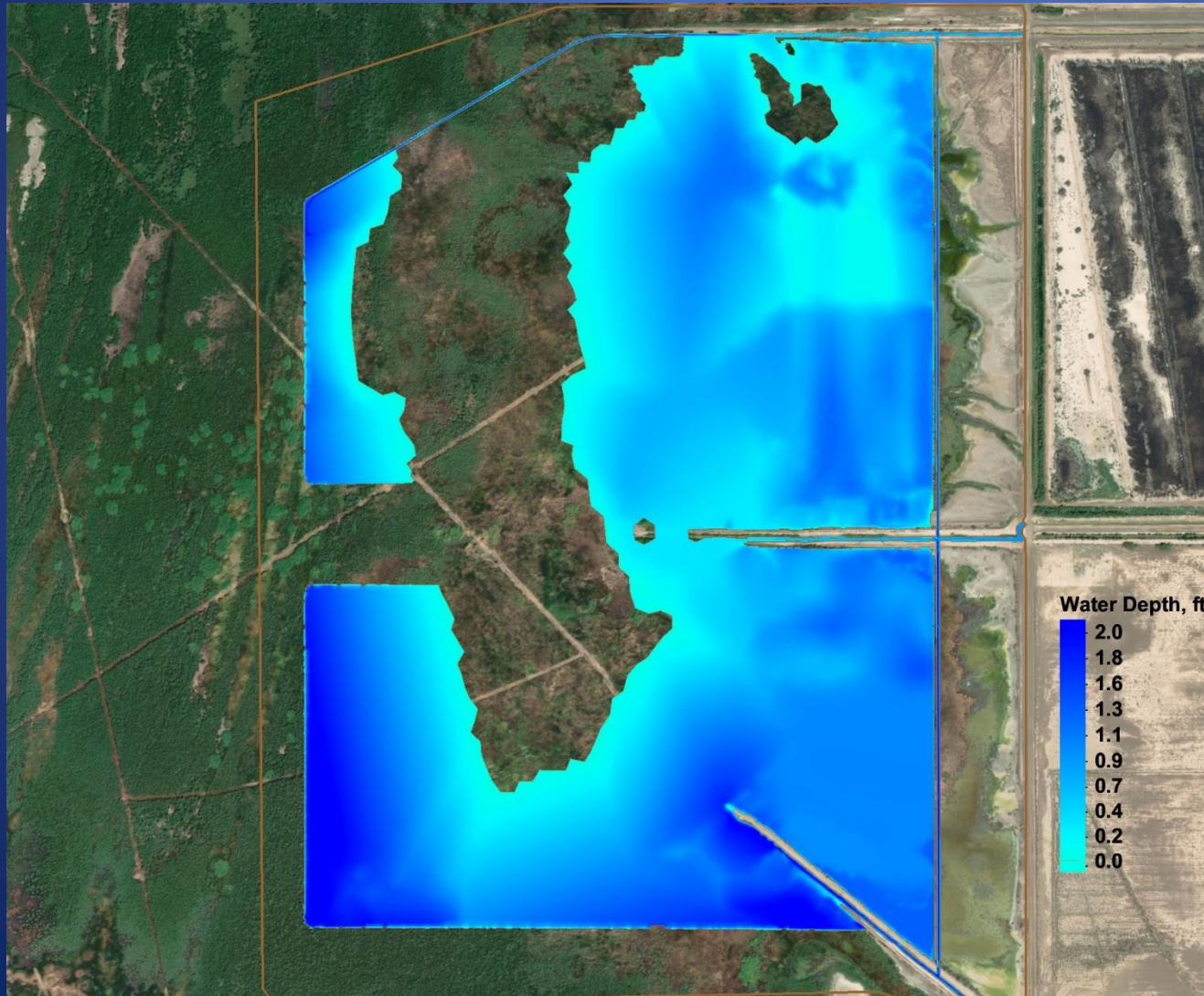


- Geothermal access
- Buried water pipeline
- Berms (of various size)
- Water surface elevation
- Water movement
- Island

RHB – Settling Basin



Alcott Project



~380 acres of preserved wetland

- Se modeling still needs to be done
- In coordination with IID and CTR

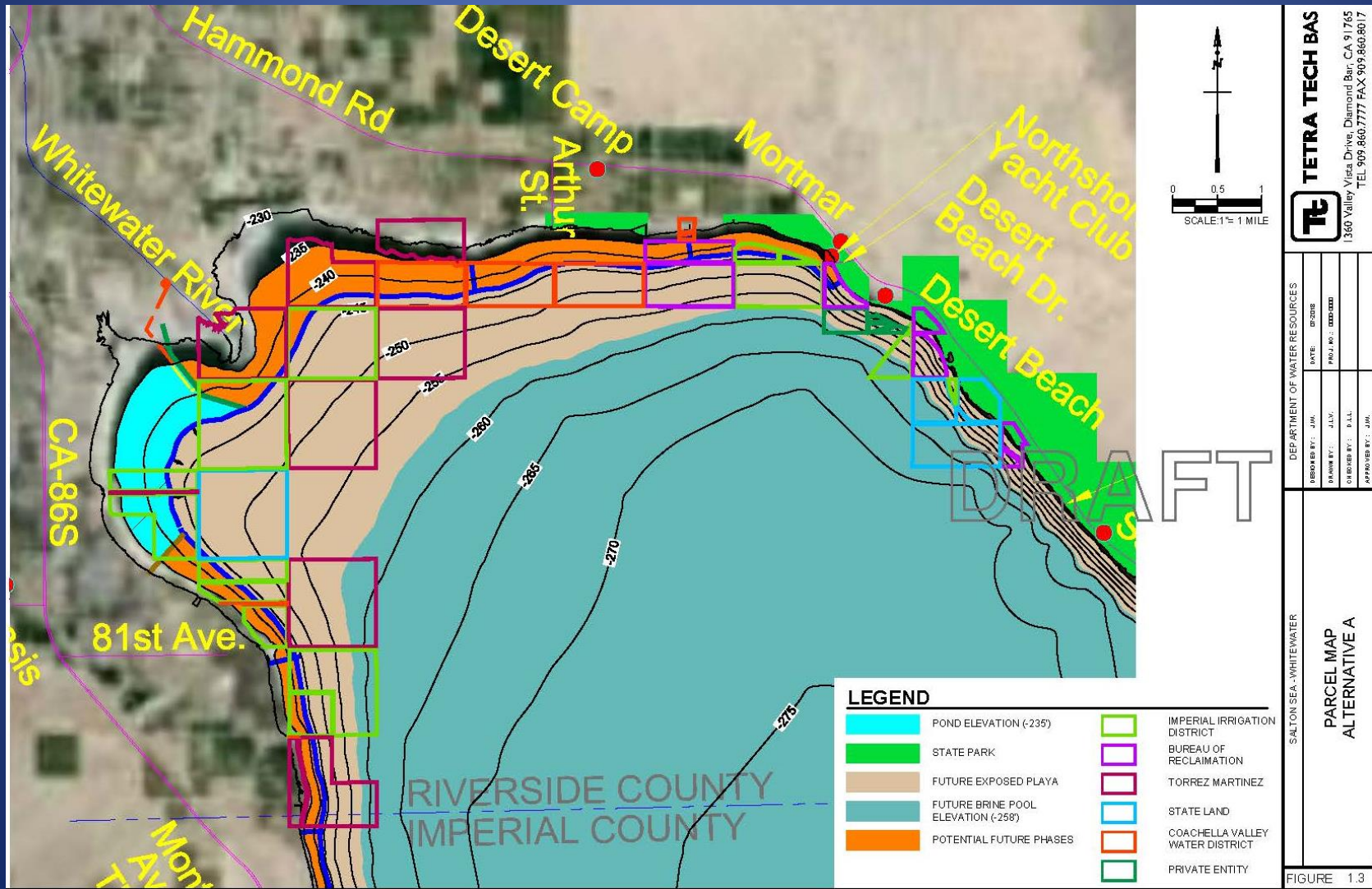
Torres-Martinez Wetland



SCH - Potential Expansion



North Lake Alternatives (5)



Comments and Questions

Other resources

- <http://resources.ca.gov/salton-sea/>
- LAO Salton Sea Report
- SSMP Phase I: 10-year Plan
- <https://water.ca.gov/saltonsea/>